

Appl. No. 10/662,031
Amdt. Dated: Nov. 4, 2005
Reply to Office Action of October 5, 2005

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A gas discharge display for emitting light by discharging a discharge gas confined in a discharge space using electrodes to produce ultraviolet light and utilizing the ultraviolet light to irradiate a phosphor layer, thereby producing a visible ray, comprising:

a gas mixture as the discharge gas, which ~~includes~~ consists essentially of neon and krypton, a proportion of the krypton being 1.1% to 5% by volume in the gas mixture, ~~[[and]]~~ a pressure of the discharge gas being more than 250 Torr and less than 500 Torr.

Claims 2-3 (canceled)

Claim 4 (previously presented): The gas discharge display of claim 1, wherein the gas discharge display further comprises a front glass substrate and a back glass substrate, and the electrodes are arranged on the front and the back glass substrates, respectively.

Claim 5 (original): The gas discharge display of claim 4, wherein the front glass substrate with the electrodes are covered by a dielectric layer thereon.

Appl. No. 10/662,031
Amtd. Dated: Nov. 4, 2005
Reply to Office Action of October 5, 2005

Claim 6 (original): The gas discharge display of claim 5, wherein a protective layer covers the entire surface of the dielectric layer.

Claim 7 (original): The gas discharge display of claim 6, wherein the protective layer is made of magnesium oxide (MgO).

Claim 8 (currently amended): A gas discharge display for emitting light, comprising:

a plurality of discharge spaces formed by a space between a front glass substrate and a back glass substrate partitioned by a plurality of barrier ribs;

a plurality of electrodes arranged on the front glass substrate and the back glass substrate, respectively;

a plurality of phosphor patches applied on the back glass substrate, one phosphor patch having one color per corresponding discharge space; and

a discharge gas confined in the discharge spaces, the discharge gas having consisting essentially of neon and krypton, a proportion of the krypton being 1.1% to 5% by volume, [[and]] a pressure of the discharge gas being more than 250 Torr and less than 500 Torr;

wherein the gas discharge display emits light by using the electrodes to apply a voltage to the discharge gas to produce ultraviolet light, and utilizing the ultraviolet light to irradiate the phosphor patches, thereby producing a visible ray.

Appl. No. 10/662,031
Amtd. Dated: Nov. 4, 2005
Reply to Office Action of October 5, 2005

Claims 9-10 (canceled)

Claim 11 (original): The gas discharge display of claim 8, wherein the front glass substrate with the electrodes are covered by a dielectric layer thereon.

Claim 12 (original): The gas discharge display of claim 11, wherein a protective layer covers the entire surface of the dielectric layer.

Claim 13 (original): The gas discharge display of claim 12, wherein the protective layer is made of magnesium oxide (MgO).

Claim 14 (currently amended): A gas discharge display including means for emitting light by discharging a discharge gas confined in a discharge space and using electrodes to produce ultraviolet light and utilizing the ultraviolet light to irradiate a fluorescent layer, thereby producing a visible ray, wherein

the discharge gas is a gas mixture which ~~includes~~ consists essentially of neon and krypton, a proportion of the krypton being 1.1% to 5% by volume in the gas mixture, [[and]] a pressure of the discharge gas being more than 250 Torr and less than 500 Torr.

Claims 15-16 (canceled)

Claim 17 (previously presented): The gas discharge display of claim 14, wherein the gas discharge display further comprises a front glass substrate and a back glass substrate, and the electrodes are arranged on the front and the back glass substrates, respectively.

Appl. No. 10/662,031
Amtd. Dated: Nov. 4, 2005
Reply to Office Action of October 5, 2005

Claim 18 (original): The gas discharge display of claim 17, wherein the front glass substrate with the electrodes are covered by a dielectric layer thereon.

Claim 19 (original): The gas discharge display of claim 18, wherein a protective layer covers the entire surface of the dielectric layer.

Claim 20 (original): The gas discharge display of claim 19, wherein the protective layer is made of magnesium oxide (MgO).